

Title (en)

Heatsink apparatus for de-coupling clamping forces on an integrated circuit package

Title (de)

Kühlkörper zur Entkopplung von Klemmkräften in IC-Gehäusen

Title (fr)

Dissipateur de chaleur permettant de découpler les forces de serrage dans un boîtier de circuit intégré

Publication

EP 1175134 B1 20070919 (EN)

Application

EP 01116750 A 20010719

Priority

US 61898000 A 20000719

Abstract (en)

[origin: EP1175134A1] A clamping system decouples the clamping forces in an electrical circuit assembly coupled to a heatsink. A heatsink clamping assembly applies controllable and predictable force on the electrical circuit assembly including an integrated circuit device ("chip"). The applied force is controlled to effectively ensure intimate contact between the chip and the heatsink to facilitate efficient chip cooling. The force applied to the chip is decoupled from the much higher force required to clamp the electrical interposer interconnect structure between the electrical circuit assembly and the printed circuit board. <IMAGE>

IPC 8 full level

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CPC (source: EP US)

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H05K 7/1061 (2013.01 - EP US); **F28F 2275/08** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US); **H05K 3/325** (2013.01 - EP US);
Y10T 403/477 (2015.01 - EP US)

Cited by

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DOCDB simple family (publication)

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JP 4873799 B2 20120208; US 2002030972 A1 20020314; US 6459582 B1 20021001; US 6483708 B2 20021119

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